Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

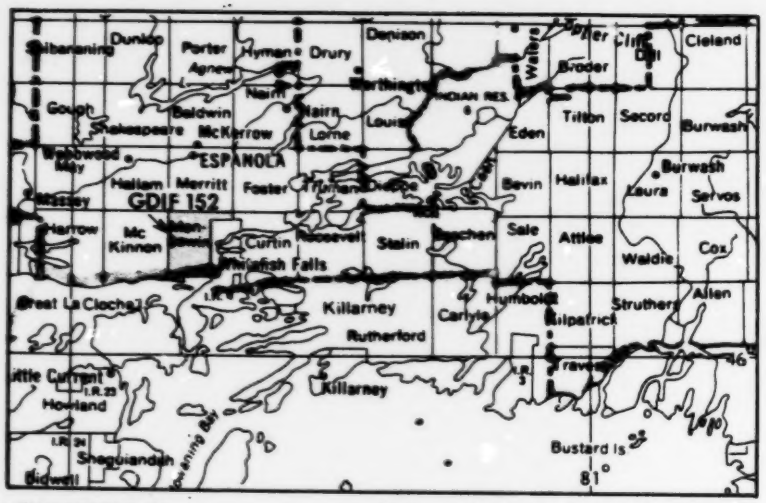
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 152

MONGOWIN TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office,
Sudbury



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

NTS Number 41 I/4

Mining Claim Map Number M 871

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows: Ontario Geological Survey
1984: Mongowin Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 152, compiled by the staff of the Resident Geologist's Office, Sudbury, 24 pages and 2 maps.

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Date	Page Revised	Revised by

MONGOWIN TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map - 1 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	R.A.
2	Assessment Files Research Office, Toronto	N.A.	R.A.
3	ODM General Index; 7 volumes	Yes	R.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	R.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	R.A.
6	ODM Industrial Mineral Reports	No	R.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	R.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	R.A.
9	Newspaper Clippings File	Yes	R.A.
10	GSC Index to Publications	Yes	R.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	R.A.
12	OGS Index Maps	Yes	R.A.
13	Source Mineral Deposit Records (O.G.S.) Mineral Occurrences File	Yes	R.A.
14	Author - Subject Articles File	Yes	R.A.
15	Miscellaneous Papers: ODM & OGS	Yes	R.A.
16	ODM Geological Circulars: OGS Study Series, Reports	Yes	R.A.
17	ODM Preliminary Reports: ODM Bulletins	No	R.A.
18	ODM – OGS Open File Reports	Yes	R.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	R.A.
20	OGS Aggregate Resources Inventory Papers	No	R.A.
21	OGS Mineral Potential Maps	Yes	R.A.
22	Theses on File, Sudbury	Yes	R.A.
23	Aerial Photographs on File, Sudbury	Yes	R.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
▲ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
△ gn. . . . . .Galena
△ gt. . . . . .Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf . . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
△ hem . . . . . Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jaspar
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
△ mag . . . . . .Magnetite
△ mc . . . . . .Malachite
△ Mn . . . . . Manganese
△ mb . . . . . .Marble
▲ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . .Millerite
△ mo . . . . . Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
△ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . .Shale
△ sid . . . . . Siderite
△ si . . . . . .Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . .Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr . . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	McMillan Mine	Au	Au 15	MDC18	Dayjon Explorers' Map Mongowin File 16
B	McMillan Mine	Au	-	-	Dayjon Explorers' Map Mongowin File 16
C	Fox Lake Gold Property	Au	Au 6	MDC18	
D	Owen Property	Cu,Ni	Ni 2	MRC12	
E	House (Moyle) Lake Property	Au	Au 3	MDC18	Ascona Petroleum's Map Mongowin File 11-A1
F	Majestic Mine	Au	Au 8	MDC18	Dayjon Explorers' Map File - Mongowin 0016
G	Wallace Mine	Cu,Ni,Co	Ni 3	MRC12	Hespanola Mines' Map Mongowin File 20-D1
H	Lots 1,2, Con.IV	Au	-	-	O.D.M. Map P.391

GDIF FORM NO. 1

MONCOWIN TOWNSHIP 4

TYPE OF WORK		Numbers below represent the year in which the work was done, e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	MILL	PRODUCTION	SHAFT SINKING
1	Abila Mines Ltd. (Jarvis, P. R.)				48?															
2	Accra Explorations Ltd. (Kirwan, G. L.) (House Lake Property)		68		68	68						67								
3	Allard, J. (Denison Mines Ltd.)			81																
4	Bass Lake Gold Mines Ltd. (Owen Gold Development Syndicate, Owen Property)				31±															
5	Canadian Nickel Co. Ltd.	81			82	81														
6	Dayjon Explorers & Holdings Ltd. (McMillan Mine, Majestic Mine)	61			61 62	29 61 62						61								
7	Denison Mines ltd. (Allard J.)				76	76							76[1]							
8	Erana Mines Ltd. (Ike Burns Exploration Corp., McMillan Mine)								78		77		78[2]							

OVER FORM NO. 7

MONGOWIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done, e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	MILL	PRODUCTION	SHAFT SINKING
9	Fox Lake Gold Mines Ltd. (Fox Lake Gold Syndicate, Abbot, J. E., Clark, A., Fox Lake Gold Property)			32 -34	35^{2} 36^{2}	34 36												34^{3} 35^{3}		
10	Hespanola Mines Ltd. (Wallace Mine)	56				56		57												
11	Hibiscus Developments Ltd. (Mongowin-Sudbury Explorations Ltd., Ike Burns Exploration Corp., Owen)					76						75	75							
12	Jo-Ami Gold Mines Ltd. (Cogo Grubstake, House, Moyle, Lake Property)				59 60	59 60														
13	Jolloco Explorations Ltd. (Wallace Mine)							69				69	69	69						
14	McMillan Mine (McMillan Gold Mines Ltd., Gold Nugget Mining & Development Co. Ltd., Heard, A.)			20 -26	26^{2}	34 -37	27 -37												34 -37	

GDI FORM NO. 7

MONCOWIN TOWNSHIP 6

TYPE OF WORK		Numbers below represent the year in which the work was done, e.g., 68 for 1968																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	MILL	PRODUCTION	SHAFT SINKING
COMPANY/AUTHOR (file number)																				
15	Majestic Mine (Dayjon Explorers & Holdings Ltd., Gregory, C., Majestic Gold Mines Ltd.,Craig-Pollard)			21 22			22													
16	Ontario Nickel Mines Ltd. (Owen Property)				52[2]															
17	Owen Property (Owen, J., Kilembe Copper Cobalt Ltd., Hibiscus Developments Ltd., Trio Mining Co. Ltd., Abila Mines Ltd., Ontario Nickel Mines Ltd., Falconbridge Nickel, Burton, A., Bass Lake Gold Mines Ltd., Owen Gold Development Syndicate, Owen, S.)	70 76[2]		-31	39?[2] 51[2] 56[2]	36 56 70						36								
18	Prosco Ltd.	57						57												
19	Viva Explorations Ltd. (Hamer, C. M.)							71				72			72					

GDI FORM NO. 7

MONCOWIN TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done, e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	MILL	PRODUCTION	SHAFT SINKING
20	Wallace Mine (Jolloco Explorations Ltd., Falconbridge Nickel Ltd., Huron Nickel Basin Mines Ltd., Tulgeske, I., Hespanola Mines Ltd., Frood, T. & Hughes Bros., Upper Canada Mining Co. Ltd.)				61 62															1847
21	Ascona Petroleum Ltd. (Jo-Ami prospect)				82															
	[1] No Anomaly [2] No Data [3] 25 t.p.d. - operated 2 weeks																			

GDI FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Abila Mines	1E	1948?	S	?	0	200	po	-
2	Accra Explorations	68-1	1968	180	45	11	305	py	Au
2a		68-2	1968	180	60	8	425	py	Au
2b		68-3	1968	180	45	16	344	py	Au
2c		68-4	1968	180	60	18	469	-	Au
2d		68-5	1968	180	45	12	352	py	Au
2e		68-6	1968	180	60	11	527	py	Au
3	Bass Lake Gold Mines	?	1931?	No	Data				
4	Dayjon Explorers	D1	1961	N28W	45	5	416	py	Au
5		D2	1961	N2W	45	12	400	py,po	Au
6		D3	1962	N7W	45	39	203	py,cp,po	Au
7		D4	1962	N31W	45	10	281	po	..
8	McMillan Gold Mines?*	1	?	S12E	?	?	?	?	Au
8a		2	?	S4E	?	?	?	?	Au
8b		3	?	S14E	?	?	?	?	Au
8c		4	?	S13E	?	?	?	?	Au
8d		5	?	S13E	?	?	?	?	Au
9		A	?	S	No	Data			Au
9a		B	?	S	No	Data			Au
9b		C	?	S	No	Data			Au
9c		D	?	S	No	Data			Au
9d		E	?	S11E	No	Data			Au
9e		F	?	S	No	Data			Au
10	Denison Mines Ltd.	AE-76-1	1976	092	45	0	201	py,po,cp,asp	Au
11		AE-76-2	1976	082	45	0	174	py,po,cp,asp	Au
12		AE-76-3	1976	102	45	18	233	py,po,cp,asp	Au
13	Jo-Ami Gold Mines	59-1	1959	N20W	45	11	137	py,asp	Au
13a		59-2	1959	N20W	60	13	142	py	Au
13b		59-3	1959	S20E	45	9	275	py	Au
13c		59-4	1959	N60W	45	8	106	py	Au
13d		59-5	1959	N20W	45	12	255	py	-
13e		60-6	1960	N60W	45	10	131	py	Au

* Shown on Dayjon Explorers Map

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
13f	Jo-Ami Gold Mines	60-7	1960	N20W	45	9	204	py	Au
13g		60-8	1960	N20W	45	50	217	-	-
13h		60-9	1960	S20E	45	7	275	cp,py,Au	Au
13i		60-10	1960	S20E	60	6	348	py,cp	Au
13j		60-11	1960	S78E	45	10	204	py	Au
13k		60-12	1960	S78E	45	7	329	py,cp	Au
131		60-13	1960	S78E	60	5	337	py	Au
13m		60-14	1960	S78E	45	11	207	-	-
13n		60-15	1960	S78E	45	18	164	-	-
13o		60-16	1960	S12W	45	10	211	py	Au
13p		60-17	1960	S24W	45	15	200	-	-
14	Ontario Nickel Mines	?	1952	No	Data				
14a		?	1952	No	Data				
15	Owen Property (Trio Mining Co.)	?	1956	A Detailed Drill Programme Little Data					Cu,Ni
16	Canadian Nickel Co.	54071	1982	120	45	12	388	py,po,marc	-
16a		54072	1982	300	45	21	429	py,cp	-
17		54073	1982	120	45	9	373	py,marc	
18	Tulgeske, I.	1	1961	N	15	-	38	-	-
18a		2	1961	N	30	-	92	-	-
18b		3	1961	S	60	-	83	-	-
18c		4	1961	S	70	-	103	-	-
18d		5	1961	S	85	-	107	-	-
18e		6	1961	N	70	-	123	-	-
18f		7	1961	N	70	-	123	-	-
18g		8	1961	N	55	-	40	-	-
18h		9	1961	S	85	-	127	-	-
19	Falconbridge Nickel	MON10	1962	S	45	-	175	py	-
19a		MON11	1962	S	50	-	250	py	-
19b		MON12	1962	S	50	-	250	py	-
19c		MON13	1962	S	30	-	305	py	-

GDIF FORM NO. 7

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
20	Huron Nickel Basin Mining	MON14	1962	S5E	50	3	175	-	-
20a		MON15	1962	S17E	45	3	261	-	-
20b		MON16	1962	S5W	60	3	306	-	-
20c		MON17	1962	S10E	50	3	242	-	-
20d		MON19	1962	N10W	60	4	200	-	-
20e		MON20	1962	S10E	50	2	196	-	-
21	Ascona Petroleum	82-2	1982	N41E	52	20	200	py	Au
21a		82-3	1982	N41E	45	4	301	py	Au
21b		82-4	1982	N41E	45	5	158	py	Au
21c		82-5	1982	N41E	45	6	199	py	Au

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
8	Erana Mines Ltd. Ike Burns Exploration Corp.	Magnetic	250'	North-South	330'
	Erana Mines Ltd. Ike Burns Exploration Corp.	Radiometric	200'	East-West	660'

GDIF FORM NO. 4

12 MONCOUTIN TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MONGOLIA FOR MSHIF

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE A file of newspaper clippings about the companies listed below who have worked in this area is maintained in the Regional Resident Geologist's Office Sudbury

Accra Explorations Ltd.

Northern Miner. Data Unknown.

Dayjon Explorers

Northern Miner. Dec.7, 21, 1962; Mar.29, 1963

Kilembe Copper Cobalt Ltd. (Owen Property)

Northern Miner. Feb.5, Oct.14, 1976

Ontario Nickel Corp. - Ontario Nickel Mines Ltd.

Northern Miner. Sept.17, 1981

Owen Property - Owen Gold Development Syndicate - Bass Lake Gold Mines Ltd.

Northern Miner? July 14, 1931 (Owen Claims)
Date Unknown (Bass Lake)

ODM GENERAL INDEX SEARCH

Words searched:
FOX LAKE GOLD MINE
FOX LAKE GOLD MINES LTD.
FOX LAKE GOLD SYNDICATE
HESPANOLA MINES LTD.
HOUSE LAKE
McMILLAN, EWEN J.
McMILLAN GOLD MINE
McMILLAN GOLD MINES,LTD.
MAJESTIC GOLD MINES LTD.
MAJESTIC GOLD MINE
MONGOWIN TOWNSHIP
MOYLE LAKE

Index Volume	Listing	Report Volume	Part	Page
3	FOX LAKE GOLD MINE, Mongowin tp.			
	Mill, capacity	47	1	21
	Mineralization	44	7	60,61
	Operations (1934)	44	1	95
	(1935)	45	1	108
4	FOX LAKE GOLD MINE, Mongowin tp.			
	Mill capacity	58	1	25
3	FOX LAKE GOLD MINES, LTD.			
	Capital ; officers; operations	45	1	108
	Incorporated	45	1	52
	Mill, capacity	49	1	25
3	FOX LAKE GOLD SYNDICATE			
	Officers; operations (1934)	44	1	95
6	HESPANOLA MINES LTD.			
	Incorporated	66	1	32
3	HOUSE LAKE, Mongowin tp.			
	See Moyle 1.			
2	McMILLAN , EWEN, J.			
	of Gold Nugget gold m.	32	6	8,28
	McMillan Dev. Co.	34	1	80
3	McMILLAN GOLD MINE, Mongowin tp.			
	Accident rate (1935)	45	1	194
	(1936)	46	1	243
	(1937)	47	1	256
	Closed down	47	1	14
	Mill, capacity	47	1	21
	sold to Mesabi Gold Mines	48	1	167
	Operations. See McMillan Gold Mines			
	Production (1934)	44	1	11
	(1935)	45	1	10
	(1936)	46	1	14
	(1937) facing	47	1	10
	Report, photo and sketch map	38	7	42,46
	plan and section	44	7	57-60
	Vein, continuation of	38	7	48

GDP FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched

ONTARIO NICKEL MINES, LTD.
OWEN
PLUM URANIUM AND METAL MINING, LTD.
UPPER CANADA MINING CO.
WALLACE MINE

Index Volume	Listing	Report Volume	Part	Page
5	McMILLAN GOLD MINE, Mongowin tp.			
	Production statistics	64	1	18
3	McMILLAN GOLD MINES, LTD.			
	See also McMillan g.m.			
	Capital; officers; operations			
	(1926)	36	1	125
	(1927)	37	1	129
	(1928)	38	1	133
	(1929)	39	1	117
	(1933)	43	1	92
	(1934)	44	1	123
	(1935)	45	1	137
	(1936)	46	1	175
	(1937)	47	1	168
	Incorporated	36	1	58
2	MAJESTIC GOLD MINES, LTD.			
	Capital and date of charter	31	1	48
	Operations near West River	31	10	47
	Properties owned by; work done	30	1	106
3	MAJESTIC GOLD MINE, Mongowin tp.			
	Report and photo	38	7	46,47
3	MONGOWIN TP., Sud.			
	Gold m.g. properties, report on	38	7	42-47
		44	7	57-61
	see also Fox Lake g.m. McMillan g.m.			
	Nickel-copper m.g. See Owen nickel claims			
	Rocks, notes and sketch map	38	7	39-42
4	MONGOWIN TP., Sud.			
	Gold m.g. See Fox Lake g.m. McMillan g.m.			
5	MONGOWIN TP. Sud.			
	Gold m.g. See McMillan g.m.			

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing	Report Volume	Part	Page
3	MOYLE LAKE, Mongowin tp.			
	Gold m.g. See McMillan g.m.			
	Majestic g.m.			
	Photo	38	7	41
	Sketch maps, geological	38	7	40,45
4	ONTARIO NICKEL MINES, LTD.			
	Capital; officers; operations:			
	(1943)	53	1	188
	(1944)	55	1	93
	(1945)	56	2	104
	(1946)	57	2	105
	Incorporated	53	1	46
5	ONTARIO NICKEL MINES, LTD.			
	Property acquired by East Rim Nickel Mines, Ltd.	61	2	87
6	ONTARIO NICKEL MINES, LTD.			
	Property acquired by East Rim Nickel Mine, Ltd.	65	2	120
3	OWEN NICKEL CLAIMS, Mongowin tp.			
	Report and sketch map	48	10	27,28
7	OWEN NICKEL PROPERTY, Mongowin twp.			
	Report on:			
	(1954)	MRC1		58
	(1957)	MRC2		98
5	PLUM URANIUM AND METAL MINING, LTD.			
	Incorporated	63	1	58
6	PROSCO, LTD.			
	Incorporated	67	1	32,33
1	UPPER CANADA MINING CO.			
	See also Wallace copper m.			
	Manganite on property of	9		202
2	UPPER CANADA MG. CO.			
	Wallace copper claims taken up by	N.C.		R25

GDI FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched

Index Volume	Listing	Report Volume	Part	Page
1	WALLACE COPPER MINE, Bay of Islands, L. Huron			
	Chalcopyrite	9		196
	Cobalt	1		90
		16	2	157
		19	2	212
	evidence re before R.C.	R.C.		67,97, 142,143
	Examined by Murray (1848)	1		221
	Gold	R.C.		59
	Iron ore	R.C.		142,143
	at World's Fair	2		33,81
	specular	2		63
	Manganite	9		202
	Morenosite	2		194
		9		205
	Nickel	R.C.		24,67
		1		176,233
		14	2	58
		16	2	157
		19	2	211
	Notes on	R.C.		123
	Rocks in, strike of	R.C.		91
	Rutile	9		208
	See also Upper Canada Mg. Co.			
2	WALLACE COPPER MINE, Bay of Islands, L. Huron			
	First discovery Ontario/nickel at	N.C.		R24-26
	Mineralization	34	8	37

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1971	Panache Lake Area, West Part	O.D.M. Map P.668	1"=1 mile
	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1"=2 miles
Card, K. D., & Lumbers, S. B.	1974,75	Sudbury-Cobalt	O.G.S. Map 2361	1"=4 miles
Thomson, J. E.	1961,68	Espanola Sheet	O.D.M. Map P.105	1"=2 miles
		GEOPHYSICAL MAPS		
O.D.M.-G.S.C.		Aeromagnetic maps		
	1965	Whitefish Falls	1522G	1"=1 mile
O.D.M.	1952	Mongowin Township		1"=½ miles
O.D.M.-G.S.C.	1965	Sudbury, Ontario	7067G	1"=4 miles
O.G.S.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey. Geophysical Series	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dep't of Energy, Surveys & Mapping Branch	1975	Topographic Map, Whitefish Falls		1:50,000
Gartner, J. F.	1978	N.O.E.G.T.S. Data Base Map, Espanola		1:100,000
	1980	N.O.E.G.T. Study 99, Espanola Area		
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000

GDIF FORM NO. 1

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOCHEMICAL		
		No Data Available, Sept.30, 1983		
		GEOLOGICAL REPORTS AND MAPS		
Card, K. D.	1968	The Mongowin Pluton	O.D.M. MP14	
	1967	Mongowin Township	O.D.M. Map P.391	1"=¼ mile
	1975	Geology of the Panache Lake Area, Dist. of Sudbury and Manitoulin	O.F.R.5123	
	1976	Espanola-Whitefish Falls Area, District of Sudbury, Ont.	O.D.M. GR131	
		Mongowin and Curtin Townships	O.D.M. Map 2312	1"=½ mile
	1976	McGregor Bay-Bay of Islands, Districts of Sudbury and Manitoulin	O.D.M. GR138 O.D.M. Maps 2316 2317 2318	 1"=½ mile 1"=½ mile 1"=½ mile
	1978	Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	O.D.M. GR166 O.D.M. Map 2360	 1"=2 miles
Card, K. D., Palonen, P., Fox, J.	1968	Bay of Islands-McGregor Bay Area McGregor Bay Sheet (West Half)	O.D.M. Map P.442	1"=¼ mile
Gordon, J. B., et al	1979	Gold Deposits of Ontario, Part 2	O.D.M. M.D.C.18	pp.76-78
Kindle, E. D.	1936	Gold Occurrences of Ontario East of Lake Superior	G.S.C. Mem.192	p.97

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Author	Date	Title	Reference	Map Scales and or Report Pages
Moore, E. S.	1929	Ore Deposits Near The North Shore of Lake Huron	O.D.M. AR38,pt.7	pp.39-46
O.G.S. & Mineral Resources Branch	1982	Mineral Potential Map of Ontario Southern Sheet Magnetic Compilation Map Geological Compilation Map 2197	O.F.R.5328	 1"=16 miles 1"=16 miles 1"=16 miles
Rickaby, H. C.	1935	Notes on Mongowin Township and Vicinity	O.D.M. AR44,pt.7	pp.57-60
Royal Commission	1890	Report of The Royal Commission on The Mineral Resources of Ontario		
Royal Commission	1917	Report of the Royal Ontario Nickel Commission		
Shklanka, R.	1969	Copper, Nickel, Lead and Zinc Deposits of Ontario	O.D.M. MRC12	p.257
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000
Yundt, S. E., et al	1983	Industrial Minerals of Ontario	O.G.S. Map P.2591	1:500,000
		JOURNALS ARTICLES, THESES, TECHNICAL REPORTS		
Ginn, R. M	1960	The Relationship of the Bruce Series to the Granites in the Espanola Area. Ph.D., UT.		
Long, D. G. F.	1978	Depositional Environments of a thick Proterozoic sandstone; the (Huronian) Mississagi Formation of Ontario, Canada.	Can. J. Earth Sci., Vol.15	pp.190-206
Lindsay, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada.	Geol. Soc. Am. Bull., 80	pp.1685-1702

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Author	Date	Title	Reference	Map Scales and or Report Pages
McLennan, S. M., Fryer, B. J., Young, G. M.	1979	The geo-chemistry of the carbonate-rich Espanola Formation (Huronian) with emphasis on rare earth elements	Can. J. Earth Sci., Vol.16	pp.230-239
Moore, E. S.	1932	A Magnetite Vein of Abnormal Type	Econ. Geol. Vol.27, No.4	pp.387-390
Murray, A.	1850	Report of Progress For The Year 1848-49	G.S.C. (Articles File)	pp.7-46)
Schenk, P. E.	1965	Depositional Environment of the Gowganda Formation (Precambrian) at the south end of Lake Timagami, Ontario	J. Sed. Pet., Vo.135	pp.309-318
Spence, J. A.	1960	An Ultrabasic Occurrence of Northwest Mongowin Township, District of Sudbury. B.Sc., Queen's		
Thachuk, N. M.	1960	The Origin of the Gowganda Banded Argillite. B.A. Sc., U.T.	MP2	
Young, G. M.	1973	Origin of the carbonate-rich Early Proterozoic Espanola Formation, Ontario, Canada	Geol. Soc. Am. Bull., Vol.84	pp.135-160
	1981	The Early Proterozoic Gowganda Formation, Ontario Canada	Earth's Pre-Pleistocene Glacial Record. Cambridge University Press.	pp.807-812

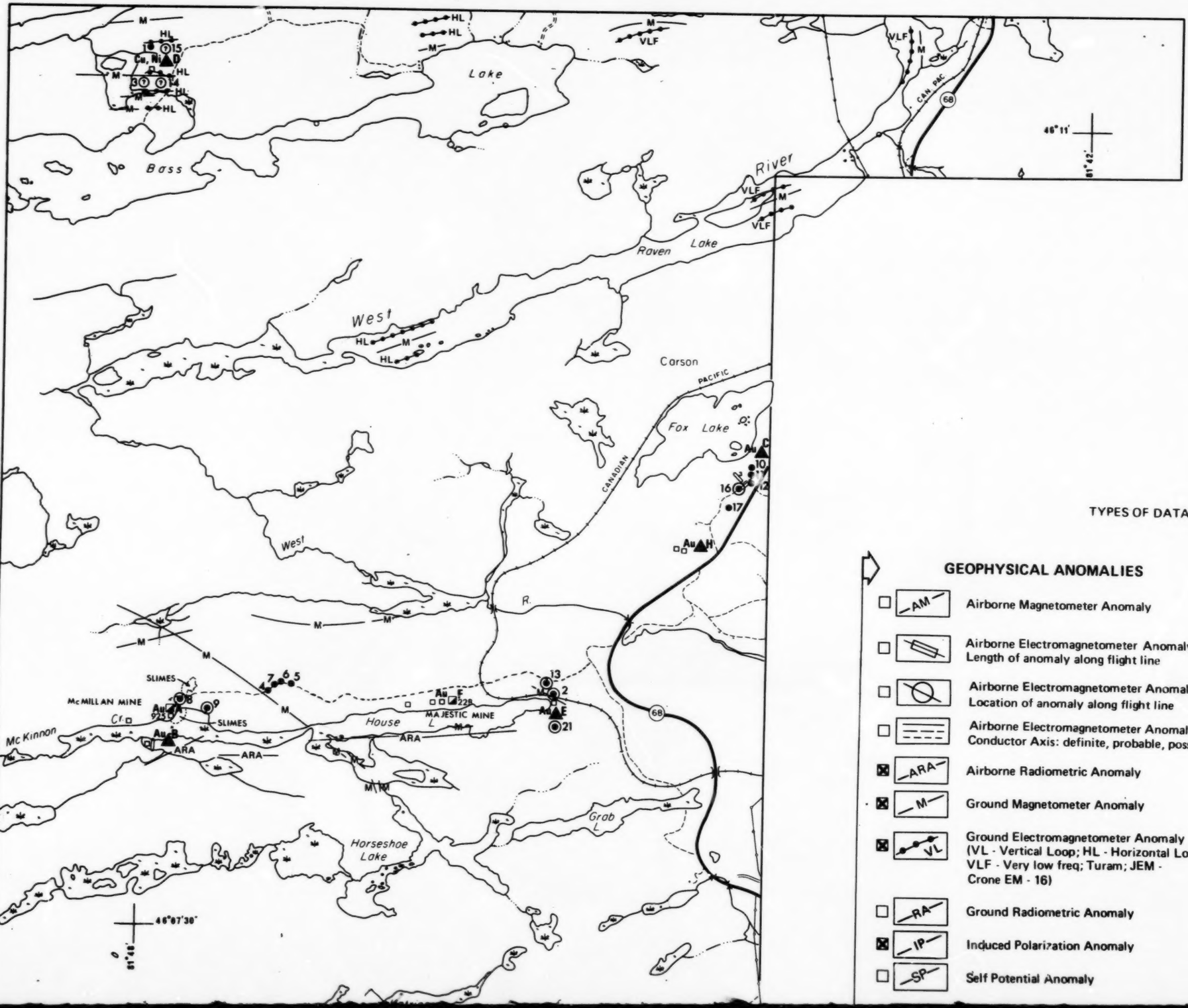
NOTES AND ADDENDA

Aerial Photographs Index

Scale 1"=¼ mile

Year	Roll	Line	Numbers
1946	10	169	10-17
	9	170	13-17
	9	171	11-15
	299	172A	12-15
	8	173	12-16

MONGOWIN TOWNSHIP



Ontario

Ministry of Natural Resources

ONTARIO GEO

Map to Accompany

INVENTORY

MONGOWIN

DISTRICT

Scale

Mile 0.5 0

Kilometre 0.5 0

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2

GEOPHYSICAL ANOMALIES

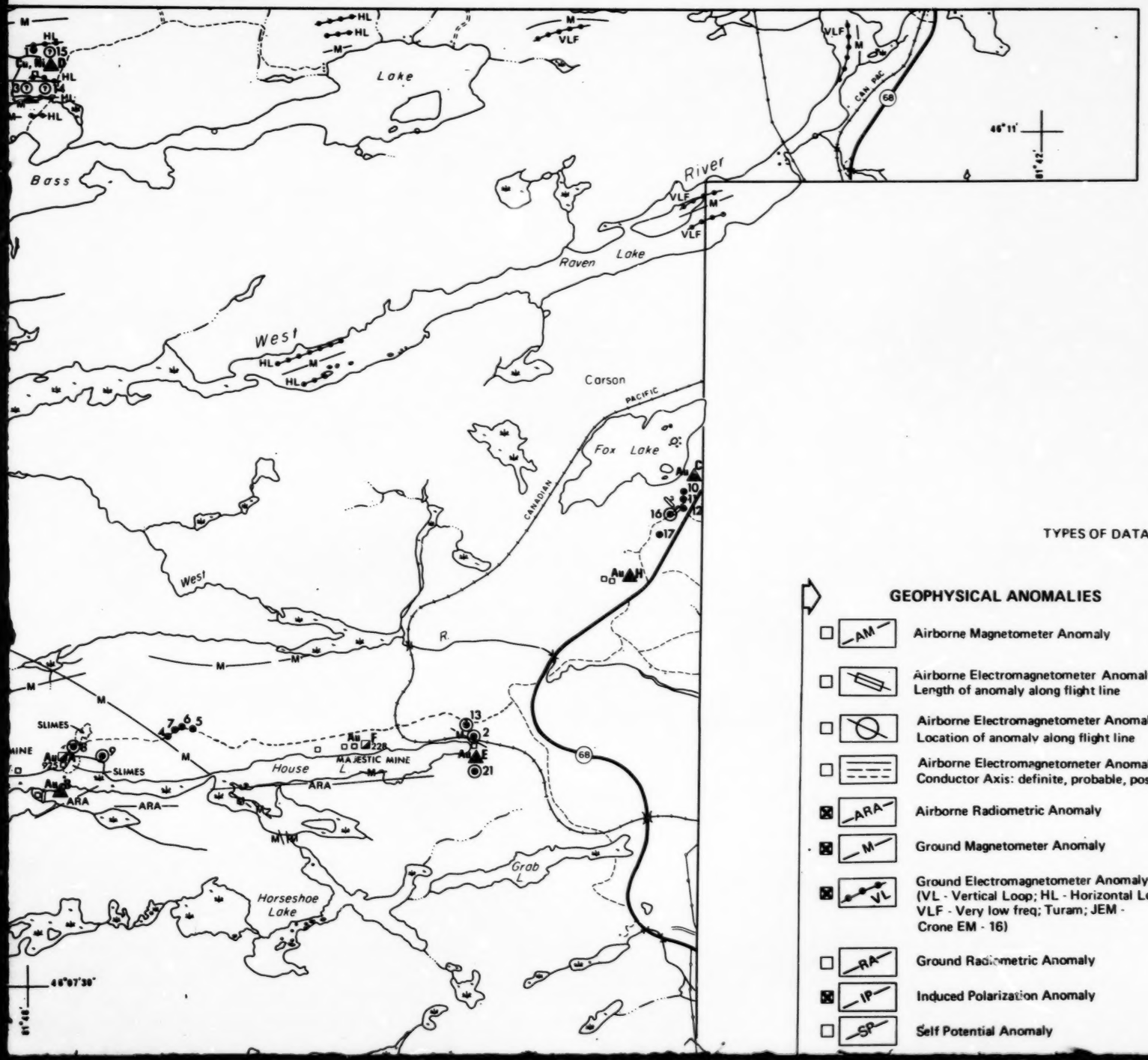
- ☐ AM — Airborne Magnetometer Anomaly
- ☐ Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- ☐ Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ☒ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☒ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly

MINERAL OCC

- ☒ cp A. — Mineral occurrence at su
- ☒ Au A. 84° — Mineral occurrence with reference letter
- ☐ Ag ? A. — Mineral occurrence repo reference letter
- ☐ cp A. — Mineralized Float with
- ☐

DRILL H

- ☒ ●² — Location of single drill ho
- ☒ ◉² — Location of closely space number
- ☒ (?)² — Drill hole, exact location
- Property with undergroun



Ontario

Ministry of Natural Resources

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

Map to Accompany GEOLOGICAL DATA
INVENTORY FOLIO 152

MONGOWIN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2 .)

GEOPHYSICAL ANOMALIES

- ☐ AM — Airborne Magnetometer Anomaly
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- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
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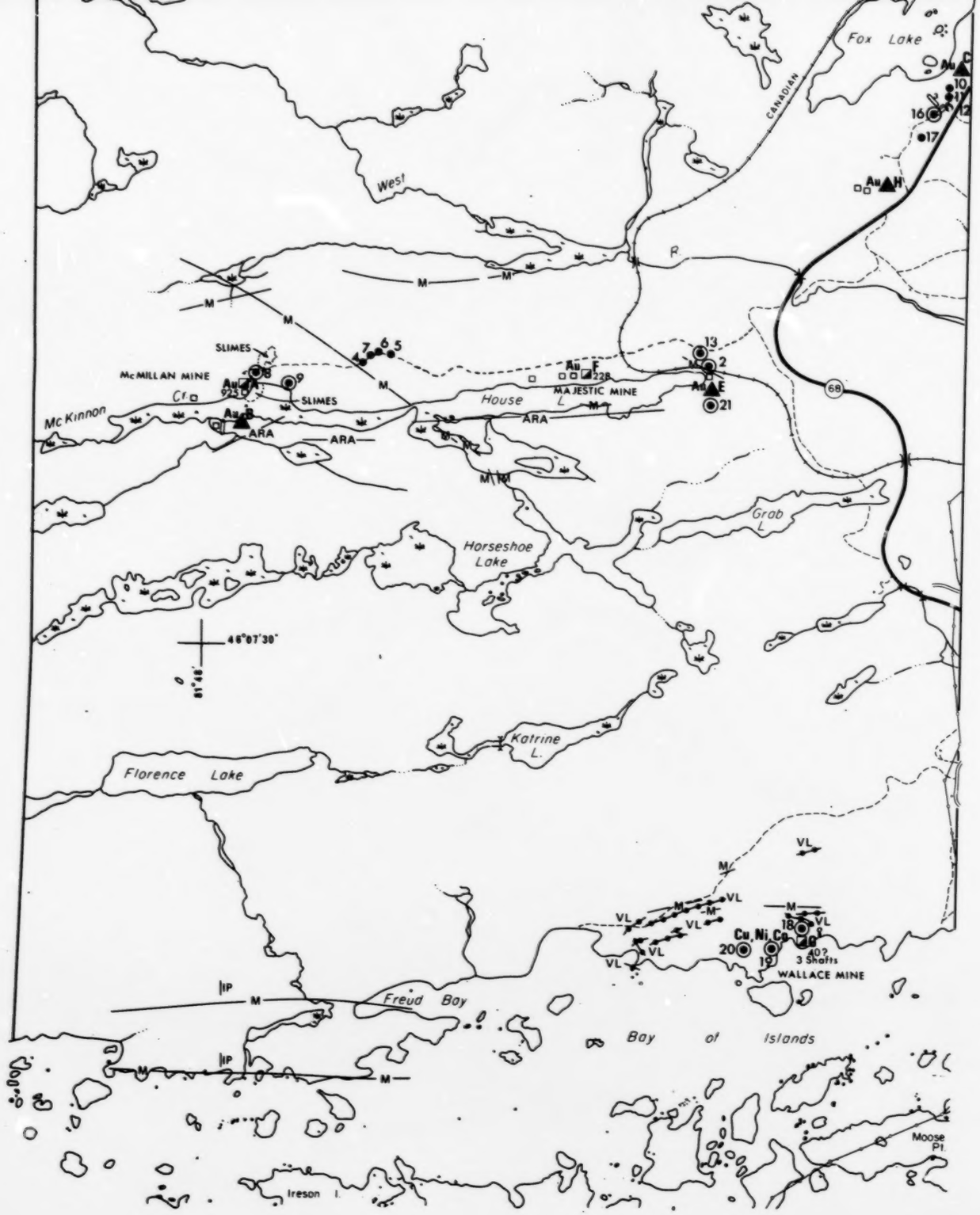
- ☐ SP — Self Potential Anomaly

MINERAL OCCURRENCES

- ☒ cp A. — Mineral occurrence at surface, with reference letter
- ☒ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- ☐ Ag A. — Mineral occurrence reported but exact location uncertain with reference letter
- ☐ cp A. — Mineralized Float with reference letter
- ☐

DRILL HOLES

- ☒ ² — Location of single drill hole, with reference number
- ☒ ² — Location of closely spaced group of drill holes, with reference number
- ☒ ? ² — Drill hole, exact location uncertain, with reference number.
- ☐ — Property with underground drill holes in this general area, with



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2

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- ☒ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- ☐ R — Resistivity Anomaly
- ☐ GR — Gravity Anomaly
- ☐

MISCELLANEOUS DATA

- ☒ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ☐

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

MINERAL O

- ☒ cp A. — Mineral occurrence at
- ☒ Au A. 84' — Mineral occurrence wit reference letter
- ☐ Ag ? A. — Mineral occurrence rep reference letter
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- ☐

DRILL

- ☒ ●² — Location of single drill h
- ☒ ◉² — Location of closely spac number
- ☒ ?² — Drill hole, exact location
- ☐ — Property with undergrou reference number
- ☐ ○² — Property with drill holes with reference number
- ☐ ⊕² — Reverse Circulation Drill number
- ☐

GEOCHEMICAL AND GE

- ☐ ◆³ — Geochemical sample site,
- ☐ — Area of geochemical sam
- ☐ ✳² — Age dating material samp
- ☐ GC — Geochemical Anomaly

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP (Map 2 of 2 .)

GEOPHYSICAL ANOMALIES

- AM — Airborne Magnetometer Anomaly
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- cp A. — Mineralized Float with reference letter

DRILL HOLES

- Location of single drill hole, with reference number
- Location of closely spaced group of drill holes, with reference number
- Drill hole, exact location uncertain, with reference number.
- Property with underground drill holes in this general area, with reference number
- Property with drill holes which have not been plotted on map, with reference number
- Reverse Circulation Drill Hole; Churn drilling, with reference number

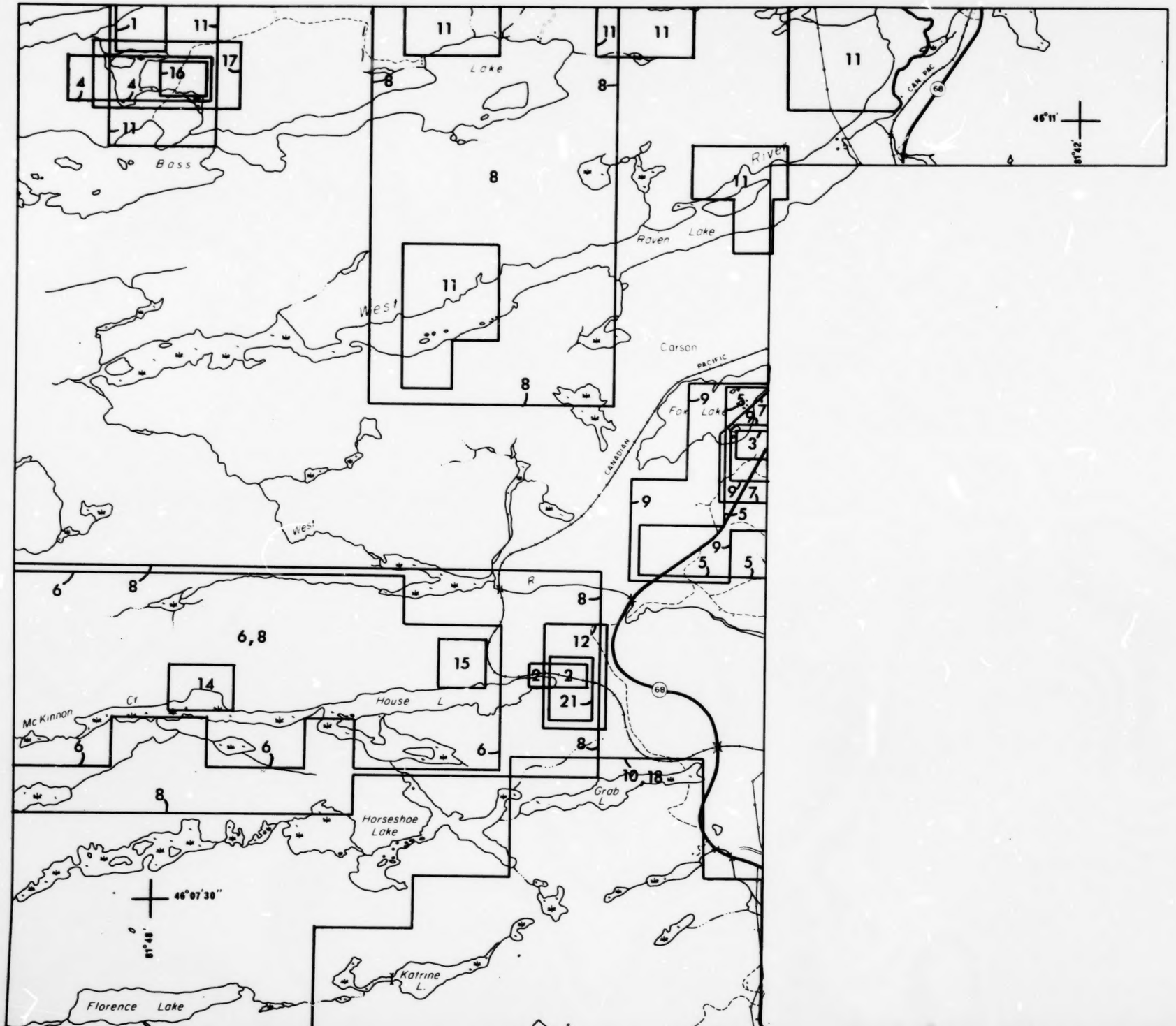
MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number
- GC — Geochemical Anomaly

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



Ministry of Natural Resources

Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

(Map 1 of 2 .)

to accompany GEOLOGICAL DATA

INVENTORY FOLIO 152

MONGOWIN TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

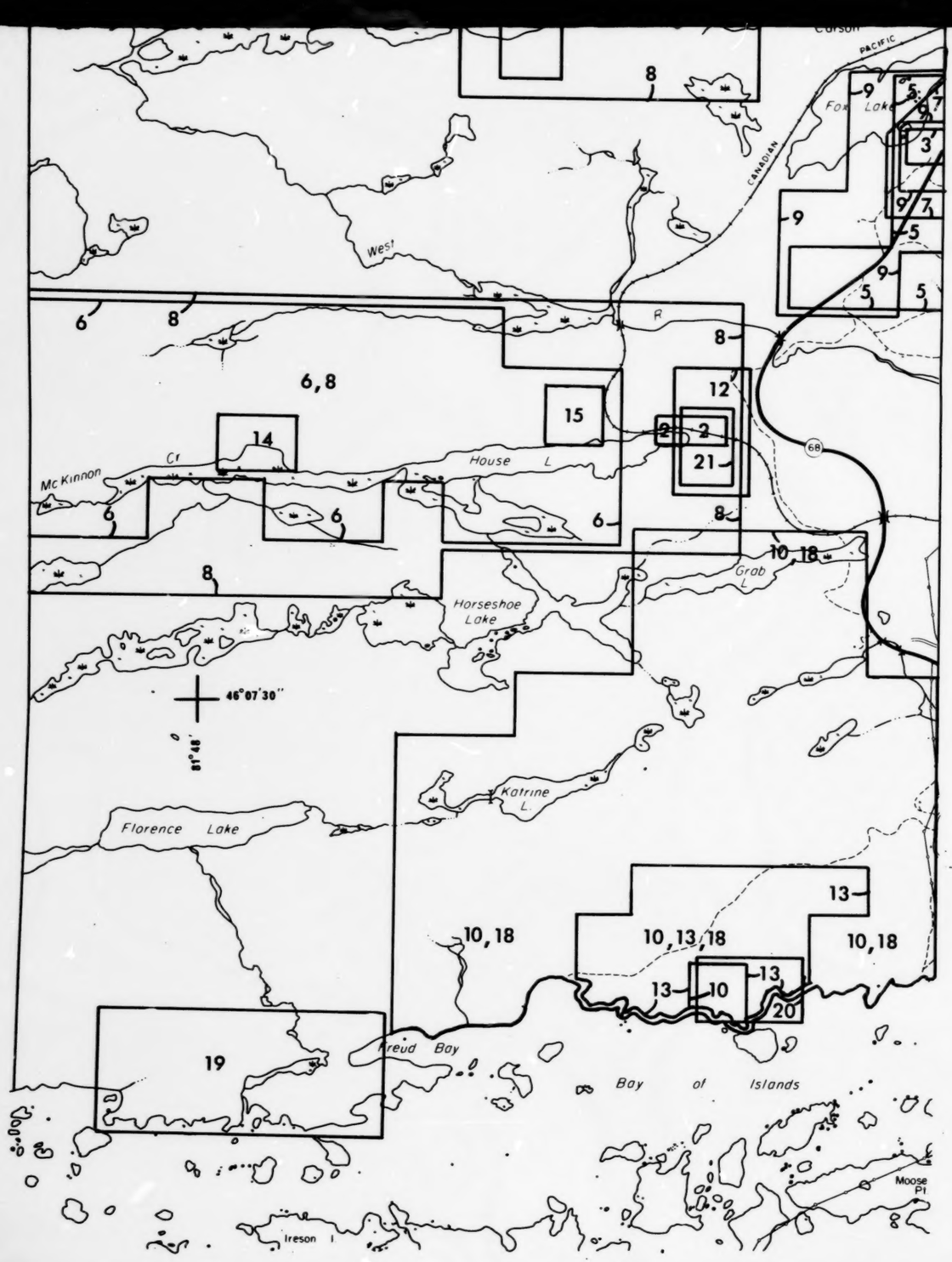
Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

Scale 1:31 680

Mile 0 5 0 0 5 1 Mile

Kilometre 0 5 0 0 5 1 Kilometre



EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages

Small area of exploration data.